



# Mouse Anti-SARS-CoV-2 Spike Monoclonal antibody, Clone 59 (CABT-CS311)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Has cross-reactivity in ELISA with SARS-CoV-2 Spike S1-His Protein, SARS-CoV-2 Spike RBD-His Protein.
<b>Target</b>	SARS-CoV-2 Spike Protein
<b>Immunogen</b>	Recombinant SARS-CoV-2 (2019-nCoV) Spike Protein
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	SARS-CoV-2
<b>Clone</b>	59
<b>Purification</b>	Protein A
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, Neut
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	PBS
<b>Preservative</b>	None
<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -

## BACKGROUND

**Introduction**

The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. It's been reported that SARS-CoV-2 (COVID-19 coronavirus, 2019-nCoV) can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

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**Keywords**

SARS-CoV-2; SARS-CoV-2 Spike S1; SARS-CoV-2 Spike RBD; SARS-CoV-2 S1; SARS-CoV-2 RBD; SARS-CoV-2 Spike Protein

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